

CLAIMS

1. A poly(lactic acid) polymer composition comprising a poly(lactic acid) polymer exhibiting crystallinity, and a plasticizer, in which the plasticizer has at least one poly(lactic acid) segment having a molecular weight of 1200 or more per molecule and comprises a polyether and/or polyester segment.
2. A poly(lactic acid) polymer composition comprising a poly(lactic acid) polymer exhibiting crystallinity, a poly(lactic acid) polymer exhibiting no crystallinity, and a plasticizer, in which the plasticizer comprises a polyether and/or polyester segment and has no poly(lactic acid) segment having a molecular weight of 1200 or more.
3. A poly(lactic acid) polymer composition comprising a poly(lactic acid) polymer exhibiting crystallinity and having a melting point lower than 145°C, and a plasticizer, in which the plasticizer comprises a polyether and/or polyester segment and has no poly(lactic acid) segment having a molecular weight of 1200 or more.
4. The poly(lactic acid) polymer composition according to claim 1, in which the plasticizer comprising a polyether

and/or polyester segment has at least one poly(lactic acid) segment having a molecular weight of 1500 or more per molecule.

5. The poly(lactic acid) polymer composition according to claim 1 or 3, further comprising a poly(lactic acid) polymer exhibiting no crystallinity.

6. The poly(lactic acid) polymer composition according to any one of claims 1, 2 and 3, in which the weight percentage of the poly(lactic acid) segment component of the plasticizer is less than 50 percent by weight of the total of the plasticizer.

7. The poly(lactic acid) polymer composition according to any one of claims 1, 2 and 3, in which the weight percentage of a plasticizing component except the poly(lactic acid) segment component of the plasticizer is 5 percent by weight or more and 30 percent by weight or less of the total of the composition.

8. The poly(lactic acid) polymer composition according to any one of claims 1, 2 and 3, in which the plasticizer has a segment comprising a poly(alkylene ether).

9. The poly(lactic acid) polymer composition according to claim 8, in which the poly(alkylene ether) is a poly(ethylene glycol).

10. Formed plastics comprising the poly(lactic acid) polymer composition of any one of claims 1, 2 and 3.

11. Formed plastics comprising the poly(lactic acid) polymer composition of any one of claims 1, 2 and 3, in which the composition being stretched 1.1 times or more in at least one axial direction.

12. A film, in which the film is formed from formed plastics according to claim 10.

13. The film according to claim 12, in which the film has a tensile modulus of elasticity of 100 to 1500 MPa and a heat resistance of 120°C to 230°C.

14. The film according to claim 12, in which the film has a film haze of 0.2 to 5 percent.

15. The film according to claim 12, in which the film has an adhesion of 5 to 30 N/cm².

16. The film according to claim 12, in which the film is selected from a packaging wrap film, a stretch film, an agricultural film, a film for label, a film for tape, a film for protecting a base material and a film for bag.

17. A poly(lactic acid) polymer composition comprising a poly(lactic acid) polymer exhibiting no crystallinity, and a plasticizer, the composition containing no poly(lactic acid) polymer exhibiting crystallinity, in which the plasticizer comprises a polyether and/or polyester segment.